

CLAIMS

1. A heat exchanger distributor for multicomponent heat exchange fluid comprising:
  - (A) a main volume comprising a hardway fin section and a main fin section;
  - (B) means for providing multicomponent heat exchange fluid to the main volume, and means for withdrawing multicomponent heat exchange fluid from the main volume; and
  - (C) a plurality of spaced dividers longitudinally oriented within the main volume, each of said dividers traversing substantially the entire hardway fin section.
2. The distributor of claim 1 wherein the main fin section comprises from 66 to 99 percent of the main volume.
3. The distributor of claim 1 wherein the dividers additionally traverse at least a portion of the main fin section.
4. The distributor of claim 1 wherein the dividers are spaced at least 3 inches apart.
5. The distributor of claim 1 wherein the main fin section comprises serrated fins.
6. The distributor of claim 1 wherein the main fin section comprises perforated fins.

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7. The distributor of claim 1 wherein the hardway fin section comprises two or more subsections of different hardway fins.

8. The distributor of claim 1 wherein the main fin section comprises two or more subsections of different main fins.

9. The distributor of claim 1 wherein the means for providing multicomponent heat exchange fluid to the main volume comprises adjacent slotted bars and hardway fins for the flow therethrough of liquid and vapor respectively.

10. The distributor of claim 1 wherein the means for providing multicomponent heat exchange fluid to the main volume comprises a distributor bar and wherein the dividers are placed with a gap from the distributor bar.